



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:  
Paul A. Crawford

Serial No.: 10/008,106

Filed: November 9, 2001

For: PUP JOINT WITH INTEGRAL WING  
NUT RETENTION SHOULDER

Group Art Unit: Unknown

Examiner: Unknown

Atty. Dkt. No.: FMCC:014USR1/MTG

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CERTIFICATE OF MAILING  
37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on the date below:

2/20/02 Date *Mark T. Garrett* Mark T. Garrett

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
Washington, D.C. 20231

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Supplemental Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.

In accordance with 37 C.F.R §§ 1.97(g),(h), this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be

construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

### **Reference C2**

Reference C2 is 10 pages sent to FMC Corporation as attachments to a letter dated May 20, 1999. In the May 20, 1999 letter, the party that sent reference C2 to FMC Corporation stated, “[f]or years, SPM [Flow Control, Inc.] has sold relatively small lengths of pipe for the oil industry to conduct fluids from one piece of equipment to another, these small lengths of pipe having all of the features claimed in the claims of the patent. I am attaching to this letter copies of drawings and sales documents illustrating one of the sales more than one year before the filing date of FMC’s patent application. For confidentiality, I have redacted dimensions and pricing information.”

In another letter to FMC Corporation dated November 8, 1999, the party that sent reference C2 to FMC Corporation stated, “[t]he crossover assembly of [C2] is a relatively small length of pipe that conducts fluids from one piece of equipment to another. . . . Additionally, crossover assemblies have been marketed long before the filing date [of the application that issued as U.S. Patent No. 5,791,693] with lengths as much as two feet. Pup joints have been marketed long before the filing date of the patent with lengths as short as two feet.”

In a letter to FMC Corporation dated March 20, 2001 from James Bradley, the party stated, “[i]n SPM’s prior art crossover assembly of [C2], the male sub has a reduced diameter section that extends to a larger diameter pipe, with the female sub being located at the end of the larger diameter pipe. The retention shoulder is thus located at the junction of the reduced diameter portion of the male sub and larger diameter pipe.”

### **Reference C3**

Reference C3 is a drawing sent to FMC Corporation as an attachment to the letter dated March 20, 2001 from James Bradley and as an attachment to a letter dated March 20, 2001 from Dan Lowrance. In the March 20, 2001 letter from James Bradley, the party that sent reference C3 to FMC Corporation stated, "I am enclosing a copy of [C3], which was prepared in 1983 by [SPM Flow Control, Inc.]. This drawing shows a pipe joint for use on an SPM intensifier unit. The pipe joint was over six feet in length, thus certainly qualifies to be a pup joint. At 3.81" from the end, a retention shoulder was machined on the male end, the shoulder being shown at 45°. Although not shown in the drawing, a wing nut was located between the retention shoulder and the forward shoulder on the male end. The wing nut was held by retainer segments."

In the letter dated March 20, 2001 from Dan Lowrance to FMC Corporation, the party stated, "[a] specific example of the piping is our drawing [C3], dated Jan [sic] 24, 1983. This part was built for our Intensifier program which was marketed at that time."

### **References C4 and C5**

References C4 and C5 are copies of labeled photographs sent to FMC Corporation as attachments to the letter dated March 20, 2001 from James Bradley and to the letter dated March 20, 2001 from Dan Lowrance. In the March 20, 2001 letter from James Bradley, the party that sent references C4 and C5 to FMC Corporation stated, "[t]he pipe joint of the [C3] drawing was built as shown by [C4 and C5]. The pipe joint was used as a component on an intensifier unit that is shown in the enclosed advertisement [i.e., C6, discussed below]. This intensifier unit was offered for sale along with the pipe joint more than a year before the filing date of [U.S. Patent No. 5,791,693]."